C2. General Design

C2.1 Overview

C2.2 Definitions

C2.3 Abbreviations and notation

C2.4 References

C2.5 Americans with Disabilities Act

C2.5.1 Sidewalks, trails, and shared use paths

C2.5.2 Pedestrian overpasses

C2.5.3 Other bridge-related facilities

C2.6 Bridge layout

C2.6.1 Profile grade line

MM No. 222, Definition of profile grade line at centerline of approach roadway, 1 October 2010

C2.6.2 Slope

C2.6.3 Spiral curve

C2.7 Bridge plan preparation

C2.7.1 Title sheet

C2.7.1.1 Engineers seals

MM No. 122, Sealing of bridge plans, 10 April 2006

MM No. 219, Guidelines for signed standard bridge plans, 1 September 2009

C2.7.1.2 Traffic data

MM No. 225, Traffic data information, August 2010

C2.7.2 First sheet

C2.7.2.1 Bid items and quantities

MM No. 29, Calculation of excavation classification line, 24 September 2001

C2.7.2.2 General notes

C2.7.3 Situation plan

C2.7.4 Staking diagram

MM No. 85, Layout for bridges on four lane highways, 30 January 2004

C2.7.5 Substructure general

C2.7.6 Pier details

C2.7.7 Abutment details

C2.7.8 Superstructure general

C2.7.8.1 CWPG

C2.7.8.2 PPCB

C2.7.9 Repair/overlay details

C2.7.10 Miscellaneous details

C2.7.10.1 Barrier rails

C2.7.10.2 Expansion devices

C2.7.10.3 Subdrains

C2.7.10.4 Slope protection

C2.7.10.5 Lighting

C2.7.10.6 Approach sidewalk

C2.7.10.7 Other

C2.7.11 Aesthetics

C2.7.12 Soils sheets

C2.7.13 Roadway plans

C2.8 Culvert plan preparation

C2.8.1 Title sheet

C2.8.2 First sheet

C2.8.3 Situation plan

C2.8.4 Repair/extension project details

C2.8.5 Reinforced concrete

C2.8.6 Roadway plans

C2.9 Sign structure and other plan preparation

C2.10 Quality control/quality assurance plan

C2.10.1 Design team

C2.10.2 Plan preparation tools

C2.10.3 Quality control

C2.10.3.1 Designer

C2.10.3.2 Design technician

C2.10.3.3 Checker

C2.10.4 Project documentation

C2.10.5 Quality assurance

Quality Control/Quality Assurance Record

Project Description:

Project Number:

Design Number:

File Number:

Design Team Name PE Number Signature

Transportation Engineer Manager (TEM)

Designer:

Technician:

Checker:

Engineer of Record (EOR):

Hydraulic Design Engineer:

Design Parameters (Complexity)

Alignment: Straight Curved

Superstructure: CCS (std) CCS (dsn) PPCB (std) PPCB (dsn)

RSS (std) RSS (dsn) CWPG

RCB (std) RCB (dsn) MISC (std) MISC (dsn)

Substructure: Integral Abutment Stub Abutment

Pile Bent Pier Frame Pier T-Pier Wall Pier

C2.10.6 Post-letting environment

C2.11 Cost estimates

C2.12 Software

C2.13 Plan turn-in

C2.14 Plan changes

C2.15 Plan revisions

C2.16 Shop drawings